

We claim:

1. An emulsifiable concentrate comprising:

a) a herbicidally effective amount, preferably 1 to 30 % by weight, of at least one  
5 herbicide;

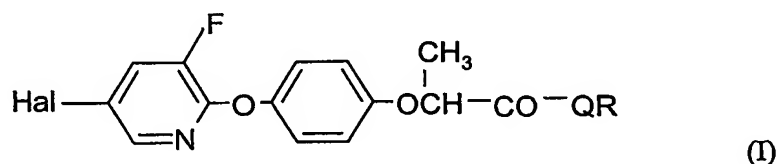
b) optionally, an amount, which is effective for antagonism of a herbicide, of at least one safener;

c) 5 to 80 %, preferably 25 to 70 %, by weight of at least one oil adjuvant, wherein said oil adjuvant comprises an oil of vegetable or animal origin, or a mineral oil, alkyl esters thereof or mixtures of those oils and oil derivatives;  
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d) an amount of at least one water-immiscible solvent sufficient to keep the AI and safener in solution in the presence of the adjuvant, preferably 5 to 70 % by weight, more preferably 25 to 60 % by weight; and

e) an emulsifying surfactant system in an amount sufficient to form an oil-in-water emulsion when the formulation is added to water, preferably between 1 and 30 % by weight;  
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with the proviso that a) comprises a herbicidally effective amount of at least one compound of formula I



20 wherein Hal is halogen

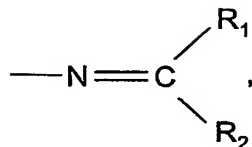
Q is oxygen or sulfur,

R is hydrogen, an alkali metal ion, or a quaternary C<sub>1</sub>-C<sub>4</sub>-alkylammonium group,

a C<sub>1</sub>-C<sub>6</sub>-alkyl group which is straight-chain or branched-chain, and which is unsubstituted or substituted by halogen, cyano, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-alkylcarbonyl, C<sub>1</sub>-C<sub>4</sub>-alkoxycarbonyl,

25 carbamoyl or di-C<sub>1</sub>-C<sub>4</sub>-alkylcarbamoyl, a C<sub>3</sub>-C<sub>6</sub>-cycloalkyl group, a C<sub>3</sub>-C<sub>6</sub>-alkenyl group, which is straight-chain or branched-chain, and is unsubstituted or substituted by halogen, a C<sub>3</sub>-C<sub>6</sub>-alkynyl group, which is straight-chain or branched-chain, and is unsubstituted or

substituted by halogen,  
a group



wherein R<sub>1</sub> and R<sub>2</sub> separately are each a C<sub>1</sub> -C<sub>4</sub> -alkyl group, or together form a 4- or  
5 5-membered methylene chain, which can be substituted by C<sub>1</sub> -C<sub>4</sub> -alkyl; and/or

b) comprises an amount, which is effective for antagonism of a herbicide, of at least one quinoline derivative safener;

wherein the emulsifiable concentrate has a pH when diluted to 1% concentration in distilled water in the range of 4.5 to 8.0, preferably 5.0 to 7.0; and

10 wherein the emulsifiable concentrate contains less than 2.5 %, preferably less than 2.0 %, water.

2. The emulsifiable concentrate of claim 1 comprising a herbicidally effective amount of a compound of formula I.

15 3. The emulsifiable concentrate of claim 2 wherein the compound of formula I is clodinafop-propargyl.

4. The emulsifiable concentrate of claim 1 wherein the oil adjuvant comprises a methyl  
20 ester of a plant oil.

5. The emulsifiable concentrate of claim 3 wherein the oil adjuvant comprises a methyl ester of canola oil.

25 6. The emulsifiable concentrate of claim 1 wherein the emulsifying surfactant system comprises at least one non-ionic surfactant.

7. The emulsifiable concentrate of claim 1 comprising b) at least one safener selected from the group consisting of quinoline derivatives; benoxacor; dichlormid; fenclorazole-ethyl; fenclorim; flurazole; fluxofenim; furilazole; isoxadifen-ethyl; mefenpyr; an alkali  
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metal, alkaline earth metal, sulfonium or ammonium cation of mefenpyr, mefenpyr-diethyl and oxabetrinil.

8. The emulsifiable concentrate of claim 7 wherein the safener comprises a quinoline derivative.

9. The emulsifiable concentrate of claim 8 wherein the quinoline derivative comprises at least one member selected from the group consisting of cloquintocet; an alkali metal, alkaline earth metal, sulfonium or ammonium cation of cloquintocet; and cloquintocet-mexyl.

10. The emulsifiable concentrate of claim 9 wherein the safener comprises cloquintocet-mexyl.

11. The emulsifiable concentrate of claim 1 wherein the herbicide comprises cloquintocet-mexyl and the safener comprises cloquintocet-mexyl.

12. The emulsifiable concentrate of claim 1 wherein the pH is in the range of from 5.0 to 7.0.

13. The emulsifiable concentrate of claim 1 wherein the water content is less than 2.0 % by weight.

14. The emulsifiable concentrate of claim 1 further comprising at least one member selected from the group consisting of co-herbicides, fungicides, insecticides, acaricides and nematocides.

15. The emulsifiable concentrate of claim 1 further comprising at least one member selected from the group consisting of chemical stabilizers, viscosity controlling agents, thickeners, binders, tackifiers, fertilizers and anti-foam agents

16. A pesticidal composition obtained by diluting an emulsifiable concentrate according to claim 1 in a suitable amount of water to form an oil-in-water emulsion.

17. The pesticidal composition of claim 16 further comprising at least one member selected from the group consisting of co-herbicides, fungicides, insecticides, acaricides, and nematocides

5 18. A method for the selective control of weeds in crops of useful plants, which method comprises treating the useful plants, their seeds or seedlings or the crop area thereof with a pesticidal composition according to claim 16.

10 19. The method according to claim 18 wherein the crops of useful plants are selected from the group consisting of maize, cereals, rice and soybeans.

20. The method according to claim 19 wherein the crops of useful plants are cereals.

15 21. The method according to claim 20 wherein the crop of useful plants is wheat or barley.